

# BO 45

intrack  
180-7211638V



Project / Type \_\_\_\_\_

Notes \_\_\_\_\_

Count / Date \_\_\_\_\_



Cylindrical tracked spotlight in die-cast aluminium with 3PH universal adapter; classic style in elegant design for discerning requirements; surface black powder coated; 360° rotatable and 90° tiltable; converter integrated in the power track adapter; passive cooling of the LEDs through improved heat sink geometry; with high power LED for maximum efficiency; no appearance of multiple shadows; light colour 4000 K; binning initial MacAdam ≤ 3 SDCM; CRI ≥ 90; min. 85% of luminous flux after 50000 operating hours; energy efficient LEDs with high CRI; incl. high quality lens system; precise radiation characteristic with 8° beam; good glare control through recessed light point level; optical attachment available as accessory; accessories are listed separately; degree of protection IP20; PC2 220-240V; adapter for toolless insertion or movement on a variety of 3-phase power tracks; adapter flush with the power track; incl. DALI-2 converter; flicker-free visual comfort through analogue current control (minimum value 1%); light source replaceable by an authorized professional; control gear replaceable by an authorized professional;



**General**

Ceiling , Track \_\_\_\_\_

tilt max 90° \_\_\_\_\_

rotation 360° \_\_\_\_\_

black , RAL9005 <sup>1</sup> \_\_\_\_\_

IP20 \_\_\_\_\_

371 lm \_\_\_\_\_

**LED**

4000 K \_\_\_\_\_

CRI ≥ 90 \_\_\_\_\_

L85 / 50000 h \_\_\_\_\_

initial MacAdam ≤ 3 SDCM \_\_\_\_\_

R<sub>g</sub>: 94 , R<sub>f</sub>: 87 , R<sub>(f-15)</sub>: 90 \_\_\_\_\_

MR 0.86 \_\_\_\_\_

MDER 0.78 \_\_\_\_\_

**Optical**

super spot \_\_\_\_\_

beam angle 8° \_\_\_\_\_

**Electrical**

DALI-2 \_\_\_\_\_

9.3 W \_\_\_\_\_

PC2 220-240V \_\_\_\_\_

40 lm/W \_\_\_\_\_

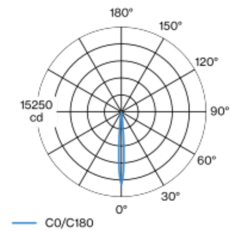
**Physical**

diameter 45 mm \_\_\_\_\_

height 120 mm \_\_\_\_\_

0.3 kg \_\_\_\_\_

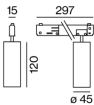
## Light distribution



super spot 8°

h (m)	EO° (lx)	ø (m)
1	13000	0.14
2	3200	0.28
3	1400	0.41
4	800	0.55
5	500	0.69

## Product drawing



<sup>1</sup> RAL code

## Installation instructions



## Lighting calculator



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## Maintenance Factors

Operating Time [h]	10 000	20 000	30 000	40 000	50 000
LLMF	0.98	0.95	0.92	0.89	0.86
LSF	1	1	1	1	1

MF

MF

LMF<sup>a</sup>

LMF × RSMF × LLMF × LSF

Maintenance Factor

Luminaire Maintenance Factor

RSMF<sup>a</sup>

LLMF

LSF

Room Surface Maintenance Factor

Lamp Lumens Maintenance Factor

Lamp Survival Faktor

<sup>a</sup> According to "CIE 97, Maintenance of indoor electric lighting systems", 2005, ISBN 3-900-734-34-8. The values must be determined by the planner.

## Optical accessories

### HONEYCOMB LOUVER

COLOUR	Ø (MM)	ARTICLE NUMBER(S)
jet black	42	007-1965188



## Optical accessories

### OVAL LENS

Ø (MM)	ARTICLE NUMBER(S)
42	007-1965880



### SOFT LENS

Ø (MM)	ARTICLE NUMBER(S)
42	007-1965980



### WALLWASHER LENS

Ø (MM)	ARTICLE NUMBER(S)
42	007-1965780

